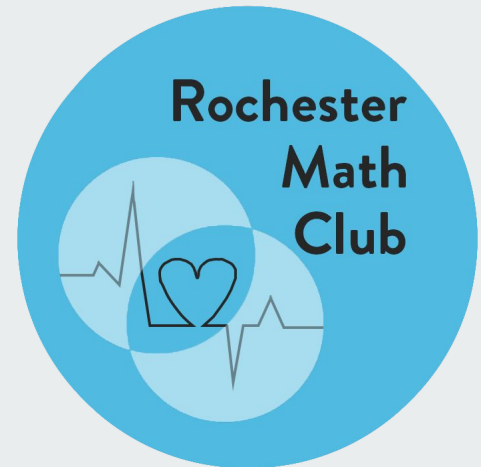




Rochester Math Club Open House

Welcome!

September 20th, 2017





Critical Needs for Math in Our Community

- Math education is fundamental for many careers in our community
- Math proficiency (U.S. News)
 - Rochester
 - Century HS: 64%; Mayo HS: 57%; John Marshall HS: 47%
 - Twin Cities Metro Area
 - Wayzata HS: 81%; Mounds View HS: 78%
- Rochester lacks competition math opportunities & funds to pursue competition math opportunities



History

- MN nonprofit organization registered in May 2017
- Beginnings: Century HS Math League Team



About Us

Mission:

- To provide math-driven students opportunities to expand their understandings of mathematical topics outside of the school setting

Vision:

- To expand interest in mathematics and inspire a mathematical mindset in the Rochester area



Who We Are



Yi Guo, President



Richard Huang, Vice President



Tracy Zhang
Secretary



Min Huang
Treasurer



Bin Zhang
Director of Public Relations



Advisory Committee

- Dennis Mays: Advisor, Mayo Clinic, RCC
- Paul Kinion: Lead Math Coach, RCTC, UMTYMP
- Valerie Kafka: Consultant in Math Education, Century High School

Student Representatives:

- Arden Peng, Hoover Elementary School
- Golden Peng, Kellogg Middle School
- Helen Li, Century High School



Community Collaborations

- UMTYMP (Univ of Minnesota Talented Youth in Mathematics Program)
- RCTC Math Department
- Rochester Public Schools District (Century HS, John Marshall HS)
- Rochester Chess Club (RCC)



Disclaimer & Expectation

- Foster interest in math and create an inspiring learning environment
- Not focused on meeting Common Core standards
- Parents are expected to volunteer at least once per semester
- Students are expected to follow instruction during meetings, work hard, challenge themselves to tackle math problems, and have fun!



Our Program Structure

- Membership is free!
- Weekly Math Circle-style meetings: Wednesday, 7-8:30pm, Harwick Cafeteria. Check website for updates/cancellations
 - Explore math circle topics with coaches
 - Practice competition math in small groups
- For K-12 students
 - 5 levels
- Fluid days



Our Program Structure (I vs II)

- Novice I/II
- Intermediate I/II
- Advanced



Novice I Level

- Basic algebra and geometry, with a stronger focus on hands-on activities
- Elementary school-aged students with a mathematics passion, but have not yet participated in any math enrichment outside of school

3. A rectangle has a width of 3. If the length is three times the width, calculate the perimeter of the rectangle.



Novice II Level

- Basic algebra and geometry, an introduction to probability and combinatorics, with a focus on hands-on activities.
- Elementary school-aged students who have participated in one or more math competitions, or students in middle school who have not participated in outside math opportunities.

11. Billy can finish a job in 3 hours. Cristiano can finish the same job in 2 hours. How much time, in minutes, would it take them to finish the job if they worked together?



Intermediate I Level

- Algebra, geometry, probability and combinatorics, and an introduction to number theory.
- Elementary school-aged students who have participated in many math opportunities, or students in middle school who have participated in a few outside math opportunities.

8. $f(x)$ is a linear function with a positive slope. If the slope of $f(f(x)) + f(x)$ is 20, find the slope of $f(x)$.



Intermediate II Level

- Algebra, geometry, probability and combinatorics, and an introduction to number theory
- Middle school-aged students who have participated in many math opportunities, or students in high school who have participated in a few outside math opportunities.

13. Determine exactly the value of $\sqrt{6 + \sqrt{6 + \sqrt{6 + \dots}}}$



Advanced Level

- Algebra, geometry, probability and combinatorics, number theory, and an introduction to mathematical proofs
- Driven by high school competition math
- Students who feel confident with their mathematical abilities and have participated in a number of math competitions or camps in recent years.

14. Calculate exactly the sum $\frac{1}{\sqrt{1+\sqrt{2}}} + \frac{1}{\sqrt{2+\sqrt{3}}} + \frac{1}{\sqrt{3+\sqrt{4}}} + \dots + \frac{1}{\sqrt{899+\sqrt{900}}}$.



Math Curriculum

- Math Circles for Elementary & Middle School Students
- Math competition problem sets



Math Competition Opportunities

- Math Olympiads for Elementary and Middle Schools (MOEMS)
- Math Kangaroo, Purple Comet
- Math Master and MATHCOUNTS
- AMC 8/10/12 (AMC Test Series)
- For high school students: Competitions at Colleges (HMMT, PUMaC, etc.)
- And many more...



Opportunities



Math Olympiads for Elementary and Middle Schools (MOEMS)

- Rochester has no teams
- November 2017 to March 2018, 5 contests
- We will register one elementary team and one middle school team



Math Kangaroo in USA for Grades 1-12

- Only 84 students participate in MN and only 1 site at St Paul
- Rochester has no contest site
- RMC is approved as a new contest center for the March 15, 2018 contest



American Mathematics Competitions (AMC)

- Determine the United States team for the International Mathematical Olympiad (IMO)
- AMC 8/10/12, AIME, USA(J)MO, MOSP, IMO
- Rochester has no contest site for AMC 8
- RMC will donate registration fee for Rochester 2017-2018 AMC 8/10/12 contests, school district will register for these contests



Volunteer @RMC

- High school student coaches with math contest experience will get volunteer certification every semester
- Math coaches with math-related degree or math education teaching experience
- Parents are expected to volunteer once per semester: facilitating hands-on activities, monitoring students' behavior during sessions, and helping students if they need special attention



Finances

- Math contest registrations
 - Math learning tools (books, games, stationery supplies)
 - Math activities in Rochester (including MN State Math League)
-
- Mayo Clinic community grant
 - Rochester Area Foundation grant
 - In-kind support and donations



Tax Deductible Donations

Help us provide students with different math opportunities!

- <http://www.rochestermathclub.com/donate>
- Rochester Area Foundation is our FISCAL agent

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on our website!

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\$100-499

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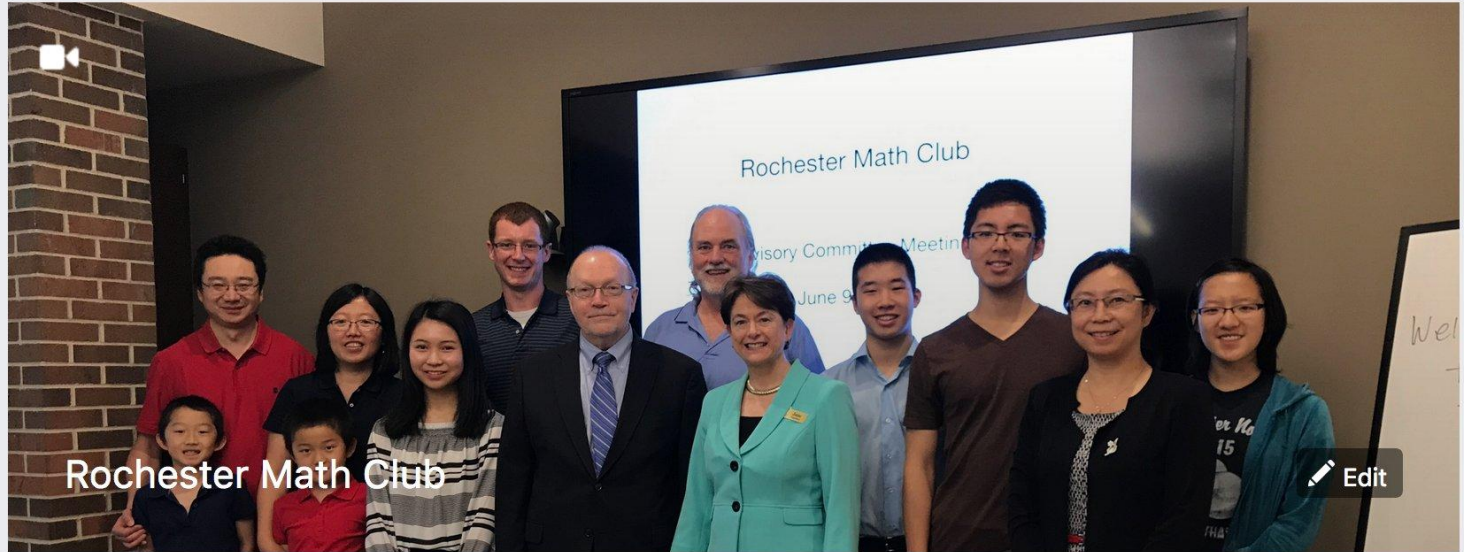
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Questions or Suggestions?

rochestermathclub@gmail.com



Thank you for coming for the RMC Open House